(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 14 April 2005 (14.04.2005)

PCT

(10) International Publication Number WO 2005/032831 A1

(51) International Patent Classification⁷: G07D 7/12

B41M 3/14,

(21) International Application Number:

PCT/AU2004/001365

(22) International Filing Date: 7 October 2004 (07.10.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 2003905517

9 October 2003 (09.10.2003) All

(71) Applicant (for all designated States except US): SE-CURENCY PTY LIMITED [AU/AU]; Hume Highway, Craigiebum, VIC 3084 (AU).

(72) Inventor; and

(75) Inventor/Applicant (for US only): POWER, Gary, Fairless [GB/AU]; 46 Drummond Street, Greenvale, VIC 3059 (AU).

(74) Agent: WATERMARK PATENT & TRADEMARK ATTORNEYS; 290 Burwood Road, Hawthorn, VIC 3122 (AU).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

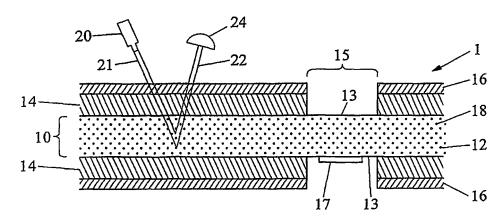
Published:

with international search report

with amended claims

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SECURITY DOCUMENT WITH UPCONVERTING MATERIAL



(57) Abstract: A security document (1) comprises a substrate (10) including at least one layer of. polymeric material (12, 26) and containing an upconverting fluorescent material (18), and at least one coating (14) containing a refractive pigment applied to the substrate (10). When the security document is exposed to electromagnetic radiation of a particular wavelength, e.g. infra-red, the upconverting material (18) emits a signal of electromagnetic radiation of a shorter wavelength, e.g. visible light, and the coating (14) containing the refractive pigment enhances the signal.

2005/032831 A1 ||||||